Safety Information (continued)

⚠ **WARNING**

Read the installation instructions before connecting the PoE Injector to its power source.

⚠ **WARNING**

Follow basic electricity safety measures whenever connecting the PoE Injector to its power source.

⚠ **WARNING**

This product relies on the building installation for short-circuit (over current) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 3A. U.S. (240 VAC, 1.5A international) is used on the phase conductor.

⚠ **WARNING**

A voltage mismatch can cause equipment damage and may pose a fire hazard. If the voltage indicated on the label is different from the power outlet voltage, do not connect the PoE Injector to this power outlet.

⚠ **WARNING**

The PoE Injector "Data In" and "Data & Power Out" ports are shielded RJ-45 data sockets. They cannot be used as Plain Old Telephone Service (POTS) telephone sockets. Only RJ-45 data connectors may be connected to these sockets.

SonicWALL Power over Ethernet (PoE) Injector User's Guide

SONICWALL

Functions and Features

Note: The device is design to meet the IEEE802.3af standard.

The SonicWALL PoE Injector adds 48VDC to the unused (non-data) wires in standard Category 5 Ethernet cable. As a result, the Power over LAN Hub delivers both data and power to the terminal.

EMC Compliance: Category 5 foiled twisted-pair cables must be used to ensure compliance with requirements of FCC Part 15, subpart B, Class B. The use of unshielded cables (Category 5 for 10BASE-T ports or for 100BASE-Tx ports) complies with Class A requirements.

Installation

The PoE Injector may be free standing or wall mounted using the back wall holders.

Before You Install

Before you mount the PoE Injector to a fixed location:

- Do not cover the PoE Injector or block the airflow to it with any other objects.
- Keep the PoE Injector away from excessive heat and humidity, and free from vibration and dust.
- Be sure the cable length from the Ethernet network source to the terminal does not exceed 100 meters (333 Feet). The PoE Injector is not a repeater and does not amplify the Ethernet data signal

Installing the Unit

- Connect the PoE Injector to an AC outlet (100-240 VAC), using a standard power cord.
- Connect the unit **Data In** jack (input) to the Ethernet network and the **Data & Power Out** jack (output) to the terminal.
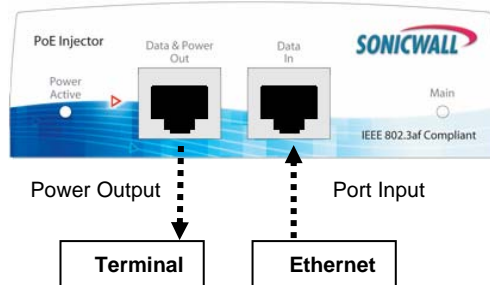

Figure 1: Illustration of connectivity for the PoE Injector.

NOTE: *There is no "on-off" switch. Simply plug the PoE Injector into an AC power source.*

Indicators

Main Led - <u>steady green</u> indicates that the power is on.

Active Led - <u>steady green</u> indicates that the terminal is connected (Power is active).

Specifications

Environmental Specifications

Mode	Temperature	Humidity
Operating	0 to 50 °C 32 to 122°F	10 to 90% (no condensation allowed)
Storage	-20 to 70 °C -4 to 158°F	10 to 90% (no condensation allowed)

Electrical Specifications

Input Voltage	90 to 264 VAC (47-63 Hz)
Input Current at 110 VAC Input Current at 220 VAC	0.34 ampere (max) 0.17 ampere (max)
Minimum Available Output Power	15.4 Watts
Nominal Output Voltage	45 to 56 VDC

Ethernet Interface

Input (Data In): Ethernet 10/100Base-T	RJ 45 female socket
Output (Data & Power Out): Ethernet 10/100Base-T, plus 48 VDC	RJ 45 female socket, with DC voltage on wire pairs 7-8 and 4-5.

Troubleshooting Tips

- Be sure AC power is applied to the PoE Injector, using an operational AC cable with an appropriate ground connection.
- Use standard 4 pair (8 wires) UTP or FTP CAT5 cable.
- Do not use a "crossover" type Ethernet cable.
- Be sure the input Ethernet cable is connected to the **Data In** port.
- Be sure the output Ethernet cable is connected to the **Data & Power Out** port.
- Verify that the Ethernet cable length is less than 333 feet (100 meters) from the Ethernet source to the load.
- Verify that a power-ready Ethernet compatible device is connected.
- Verify that the cables and RJ-45 connectors have a tight connection and there is not a "short" over the cables or connectors.

Safety Information

Important Safety Information

- Installation and removal of the PoE Injector must be carried out by qualified personnel only.

AC Power Cord Set:

- The power cord must have regulatory agency approval for the specific country in which it is used (i.e., UL, CSA, VDE, etc.).
- The power cord must be a three-conductor type (two current carrying conductors; one ground conductor) terminated on one end by an IEC 60320 appliance coupler (for connection to the PoE Injector), and on the other end by a plug containing a ground (earthing) contact.
- The power cord must be rated for a minimum of 250VAC RMS operation, with a minimum rated current capacity of 5 amps (or a minimum wire gauge of 18 AWG ($0.75mm^2$). *Note: PoE Injector units installed in Australia require power cords with a minimum wire gauge of 16 AWG ($1.0 mm^2$).*
- The AC wall socket-outlet must be near the PoE Injector and easily accessible. You can remove AC power from the PoE Injector by disconnecting the AC power cord from either the wall outlet or the PoE Injector coupler.
- The PoE Injector data and data/power interfaces are qualified as SELV (Safety Extra-Low Voltage) circuits according to IEC 60950. These interfaces can only be connected to SELV interfaces on other equipment.